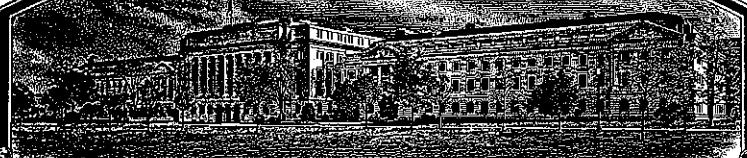


No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Ezra Zaden Beheer B. H.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SELLING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Salad Pak'

In Testimony Whereof, I have hereunto set my hand
and caused the seal of the Plant Variety
Protection Office to be affixed at the City of
Washington, D.C. this twenty-ninth day of
November, in the year two thousand and seven.

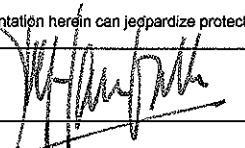
Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and Information collection burden statement on reverse)

<p>1. NAME OF OWNER ENZA ZADEN BEHEER B.V.</p> <p>4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) POSTBUS 7, 1600 AA ENKHUIZEN HALING 1^e, 1602 DB ENKHUIZEN THE NETHERLANDS</p> <p>7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) CORPORATION</p> <p>10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) ENZA ZADEN RESEARCH USA, INC ATTN: MEL HOLLAND P.O. Box 866 SAN JUAN BAUTISTA, CA 95045</p>		<p>The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).</p> <p>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 13.1466</p> <p>5. TELEPHONE (Include area code) 011.31.228.315.844</p> <p>6. FAX (Include area code) 011.31.228.315.854</p> <p>8. IF INCORPORATED, GIVE STATE OF INCORPORATION NOORD - HOLLAND</p> <p>9. DATE OF INCORPORATION 1938</p>	<p>3. VARIETY NAME SALAD PAK</p> <p>FOR OFFICIAL USE ONLY</p> <p>PVPO NUMBER 200500307</p> <p>FILING DATE July 28, 2005</p>
			<p>FEE RECEIVED FILING AND EXAMINATION FEES: \$ 3652 - DATE 7/28/05</p> <p>CERTIFICATION FEE: \$ 768 - DATE 10/24/07</p>
<p>11. TELEPHONE (Include area code) 831-623.4644</p> <p>14. CROP KIND (Common Name) LETTUCE</p> <p>15. GENUS AND SPECIES NAME OF CROP LACTUCA SATIVA L.</p>	<p>12. FAX (Include area code) 831-623.1746</p> <p>16. FAMILY NAME (Botanical) COMPOSITAE</p> <p>17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>13. E-MAIL mholland2@ix.netcom.com</p> <p>18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.</p>	
<p>19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) 		<p>20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23)</p> <p>21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED</p> <p>22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)</p>	
<p>23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)</p>		<p>24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)</p>	
<p>25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.</p> <p>The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.</p> <p>Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.</p>			
<p>SIGNATURE OF OWNER </p> <p>NAME (Please print or type) J. CAMBA</p> <p>CAPACITY OR TITLE DIRECTOR</p>		<p>SIGNATURE OF OWNER</p> <p>NAME (Please print or type)</p> <p>CAPACITY OR TITLE</p> <p>DATE</p>	

(See reverse for instructions and information collection burden statement)

INSTRUCTIONS

200500307

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the *Regulations and Rules of Practice*.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvpindex.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 <http://www.ams.usda.gov/lsg/seed.htm>.

ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See *Regulations and Rules of Practice*, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

DATE OF FIRST SALE : 07/29/2005

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

**MARGARITA , PVP No: 9700075 , ISSUE DATE : 03/31/2000
NADINE , NOT FOUND IN PVP PUBLIC ACCESS DATABASE**

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the *Regulations and Rules of Practice*.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD). USDA is an equal opportunity provider and employer.

Exhibit A-Origin and Breeding History of the Variety

Variety: 'Salad Pak'

'Salad Pak' originated from a cross made in June 1997 between the butter head lettuce varieties 'Margarita' (female, 2-97-1321ms) and 'Nadine' (male, 2-97-1318ms). The objective of the cross was to incorporate *Bremia lactucae* resistance factor R18 from 'Nadine' into a 'Margarita' type butter head. 'Salad Pak' was tested initially as the experimental number E13.1466CS.

'Salad Pak' is a white seeded, large framed butter head that is adapted to production of lettuce in the coastal areas of California and the desert southwest. 'Salad Pak' has the genetic resistance factor R18 and is resistant to races CAI-VI of *Bremia lactucae*.

The pedigree method of selection was employed using mass selection and single plant selection to develop the variety. Seedling screenings were accomplished by spraying a fine mist of the spore suspension, *Bremia lactucae*. Which were then incubated for 12 hours 90% + relative humidity. The plants were then maintained in a cool environment at 16-18C and observed for symptom development on the cotyledons and first true leaf at 7-10 days after inoculation. Seedling were selected and or evaluated based upon the development of presence or absence of sporulation of *Bremia lactucae*. 'Salad Pak' has also been tested in two seasons in fields that have a known history of Tomato Bushy Stunt Virus (TBSV) and it has been observed to be resistant to TBSV.

Stages of Development

Stage 1- In June 1997 the F-1 was made between 'Margarita' x 'Nadine' .

Stage 2- In August 1997 F-1 seedlings of the cross were screened for resistance (Test # DM6-97-1338) to *Bremia lactucae* isolate 91D36 (UC Davis supplied) all 20 seedlings were resistant. 'Margarita' is susceptible whereas 'Nadine' is resistant to isolate 91D36 of *Bremia lactucae*. Two single plant selections and a mass of eight plants were made and transplanted to the greenhouse for seed increase.

Stage 3- F-2 seed from the increase above was sown August 7, 1998 in the breeding nursery (#8-98) at the company trial grounds in San Juan Bautista, California. Four single plant selections were made from 8-98-4931 which was derived from the eight F-1plant mass. These plants were dug and transplanted to the greenhouse for a seed increase.

Stage 4- Sixteen seedlings of the F-3 from 8-98-4931B (Test# 3-99-1096) were tested with isolate 91D36 of *Bremia lactucae* and were found to be 100% resistant. Sixteen seedlings of 'Margarita' (Test# 3-99-1093) were also tested at the same time and were 100% susceptible. The F-3 seed was also sown in the company breeding nursery (# 9-99-4711) on August 18, 1999 and three single plant selections were made that were larger and darker green that had less suckering than 'Nadine' or 'Margarita'. These plants were dug and transferred to the company greenhouses for seed increase.

200500307

Stage 5- Seed from the increase # 9-99-4711B was sown in the breeding nursery at the company trial grounds on May 19, 2000. Two single plant selections were made (# 5-00-3062A, B) that were darker green leaf color and larger size than 'Nadine'. These two plants were free of tip burn and slower to develop suckers.

Stage 6- Seed of # 5-00-3062A was sown in the breeding nursery at the company trial grounds on January 19, 2001 # 2-01-1299 and on June 1, 2001 # 5-01-3430. The line was observed to be uniform for type and larger in size than 'Margarita' and 'Nadine'. The line had a similar leaf type and color when compared to 'Margarita' and was darker green than 'Nadine'. Seed of # 5-00-3062A was screened for resistance to isolate 91D36 (Test# 4-01-954) of *Bremia lactucae* and found to be 100% resistant. Based on the evaluations from the breeding nurseries 500 seed were sown and transplanted June 2001 at Buttonwillow, California to produce trial seed for the Salinas, California commercial production lettuce fields 2002.

Stage 7- In 2002 seed produced at Buttonwillow, California was tested as E13.1466CS in the Salinas Valley of California commercial lettuce production fields. It was observed that observed that the variety was larger framed and was slower maturing than the parent 'Margarita'. Seed of E13.1466CS was sown in three breeding nurseries at the company trial grounds and was observed to be uniform for type with no variants and had a larger head and frame size than 'Margarita'. Seedlings of E13.1466CS were screened for resistance to isolate 91D36 (Test # DM2-02-2081) of *Bremia lactucae* and were found to be 100% resistant. Seedlings of 'Nadine' (Test # DM12-02-4096) and 'Margarita' (Test # DM12-02-4097) were screened with isolate 91D36, *Bremia lactucae*. Results from the screening showed 'Nadine' was 100% resistant and 'Margarita' was found to be 100% susceptible to the race CAV.

Stage 8- Commercial testing of the experimental variety was continued in the Salinas Valley of California. The variety continued to be uniform for type and no variants were observed. The variety was also observed to be later in maturity and have a larger frame and head diameter than 'Margarita'. Based upon the evaluations in commercial fields above it was decided to produce seed in 2003 at Buttonwillow, California for additional testing in 2004.

Stage 9- Commercial testing of the variety was continued and it was deemed to be commercially acceptable for sale and given the name 'Salad Pak'.

Stage 10- It was observed from the commercial trials that 'Salad Pak' and 'Margarita' appeared to be resistant to Tomato Bushy Stunt Virus (TBSV). A sowing was placed in a commercial iceberg on July 15, 2004 field 2 miles south of Salinas, California with a known history of Tomato Bushy Stunt Virus. There were no TBSV symptoms noted on 'Margarita' (38 plants) and 'Salad Pak' (36 plants). The butter head variety 'Bennett' was sown in this same field and all 34 plants were susceptible to TBSV. From the results of the above screening we sowed an additional TBSV screening of these three varieties mentioned above in a field near Natividad Road, Salinas, California which has been the site of testing of TBSV resistance for the USDA. There were three replications of each variety 'Margarita' (38, 48, 42 plants) and 'Salad Pak' (40, 38, 36 plants) both had no

200500307

TBSV symptoms. All of the plants from the three replications of the variety 'Bennett' (45, 37, 26 plants) were susceptible to TBSV.

Addendum to Exhibit A: Lettuce PVP Application # 200500307, 'Salad Pak'

The variety 'Salad Pak' has been observed to be stable and uniform for type over 4 generations of reproduction and during the seed increase period.

A loose heading variant has been observed at the frequency of 1 plant in 5,000 plants.

Exhibit B:**Statement of Distinctness of the Variety**

Lettuce: 'Salad Pak'

'Salad Pak' is a white seeded butter head lettuce adapted for commercial production in the Coastal Valleys of California and the Desert SouthWest.

Margarita
RAP
10/15/07

'Salad Pak' most closely resembles 'Margarita', however, 'Salad Pak' can be distinguished from its parent 'Margarita' in that it has a larger frame size and it produces larger—and heavier heads. 'Salad Pak' is further resistant to races CAI-CAVI of *Bremia lactucae* and has the resistance factor R18 while 'Margarita' is susceptible to CAV and CAVI races of *Bremia lactucae* and does not have the resistance factor R18. 'Salad Pak' tends to be later in maturity compared to 'Margarita' and 'Bennett', in average 2 and 3-4 days later respectively.

Compared to its other parent 'Nadine', 'Salad Pak' is distinctly different in that it has a darker green color.

Compared to the standard variety 'Bennett', 'Salad Pak' is resistant to lettuce dieback (tomato bushy stunt virus) while 'Bennett' is susceptible.

The color of 'Salad Pak' is 144A on the RHS color chart versus 143B for 'Margarita', 146B for 'Bennett', and 144C for 'Nadine'.

'Salad Pak' has been tested for three seasons in the Salinas Valley of California and is uniform for type and free of variants.

Exhibit B Addendum: Lettuce PVP Application No. 200500307, 'Salad Pak'

The *Bremia* resistance factor R18 is present in the variety 'Salad Pak'. The *Bremia* resistance factor R18 is absent in the variety 'Margarita'

200500307

Exhibit D- Results of Bremia lactucae Screening

<u>Screening Bremia lactucae- Isolate 91D36</u>					<u>Planted-8-30-1997</u>
<u>Test No.</u>	<u>Variety</u>	<u># Plants</u>	<u>Resistant</u>	<u>Susceptible</u>	
DM6-97-1332	Nadine	10	10	0	
DM6-97-1338	Salad Pak-F1	20	20	0	
<u>Screening Bremia lactucae- Isolate 91D36</u>			<u>Planted-12-23-1998</u>		
<u>Test No.</u>	<u>Variety</u>	<u># Plants</u>	<u>Resistant</u>	<u>Susceptible</u>	
DM8-98-2447	Nadine	16	16	0	
DM8-98-2448	Salad Pak-F2	24	12	12	
<u>Screening Bremia lactucae- Isolate 91D36</u>			<u>Planted-3-03-1999</u>		
<u>Test No.</u>	<u>Variety</u>	<u># Plants</u>	<u>Resistant</u>	<u>Susceptible</u>	
DM3-99-1092	Nadine	16	16	0	
DM3-99-1093	Margarita	16	0	16	
DM3-99-1096	Salad Pak-F3	16	16	0	
<u>Screening Bremia lactucae- Isolate 91D36</u>			<u>Planted-11-29-1999</u>		
<u>Test No.</u>	<u>Variety</u>	<u># Plants</u>	<u>Resistant</u>	<u>Susceptible</u>	
DM4-00-1713	Nadine	14	14	0	
DM4-00-1714	Margarita	16	0	16	
<u>Screening Bremia lactucae- Isolate 91D36</u>			<u>Planted-12-28-1999</u>		
<u>Test No.</u>	<u>Variety</u>	<u># Plants</u>	<u>Resistant</u>	<u>Susceptible</u>	
DM7-00-2293	Margarita	16	0	16	
DM7-00-2294	Nadine	15	15	0	
<u>Screening Bremia lactucae- Isolate 91D36</u>			<u>Planted-03-07-2001</u>		
<u>Test No.</u>	<u>Variety</u>	<u># Plants</u>	<u>Resistant</u>	<u>Susceptible</u>	
DM4-01-954	Salad Pak-F5	16	16	0	
DM4-01-956	Anthem	24	24	0	
<u>Screening Bremia lactucae- Isolate 91D36</u>			<u>Planted-03-06-2002</u>		
<u>Test No.</u>	<u>Variety</u>	<u># Plants</u>	<u>Resistant</u>	<u>Susceptible</u>	
DM7-02-2074	Nadine	16	16	0	
DM7-02-2081	Salad Pak-F6*	32	32	0	
<u>Screening Bremia lactucae- Isolate 91D36</u>			<u>Planted-03-05-2004</u>		
<u>Test No.</u>	<u>Variety</u>	<u># Plants</u>	<u>Resistant</u>	<u>Susceptible</u>	
DM3-04-904	Margarita	16	0	16	
DM3-04-905	Salad Pak**	24	24	0	
	* Seed Increase 2002 for Trials E13.1466CS				
	* Commercial Seed Production for Trials/Sales Salad Pak				

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

Exhibit C

**OBJECTIVE DESCRIPTION OF VARIETY
Lettuce (*Lactuca sativa* L.)**

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
<i>ENZA ZADEN BEHEER B.V.</i>	<i>13.1466</i>	<i>SALAD PAK</i>
ADDRESS (Street and No., or RD No., City, State, Zip Code, and Country)		FOR OFFICIAL USE ONLY
<i>POSTBUS 7, 1600 AA ENKHUIZEN HALING 1^e, 1602 DB ENKHUIZEN THE NETHERLANDS</i>		PVPO NUMBER <i>200500307</i>

Place the appropriate number that describes the varietal character in the boxes below. Place a zero in the first box (e.g. 9 9 or 0 9) when number is either 99 or less or 9 or less. Measured data should be the mean of an appropriate number (at least 20) of well space plants. Royal Horticultural Society or any recognized color standard may be used to determine plant colors.

The Location of the Test Area is:

Color System Used:

SAN JUAN BAUTISTA, CA & SALINAS, CA *RHS 144A*

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties, which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Application Variety (a1) *SALAD PAK* Most Similar Variety (c1) *MARGARITA*

Standard Regional Check Variety (c2) *BENNETT*

1. PLANT TYPE: (See List of Suggested Check Varieties on Page 8)

- | | | | |
|-------------------|------------------------|-----------------------------|----------------------------|
| 01 = Cutting/Leaf | 04 = Cos or Romaine | 07 = Salinas Group | 10 = Latin |
| 02 = Butterhead | 05 = Great Lakes Group | 08 = Eastern (Ithaca) Group | 11 = Other (Specify) _____ |
| 03 = Bibb | 06 = Vanguard Group | 09 = Stem | |
- | | | |
|--|--|--|
| (a1) <input type="text" value="0"/> <input type="text" value="2"/> | (c1) <input type="text" value="0"/> <input type="text" value="2"/> | (c2) <input type="text" value="0"/> <input type="text" value="2"/> |
|--|--|--|

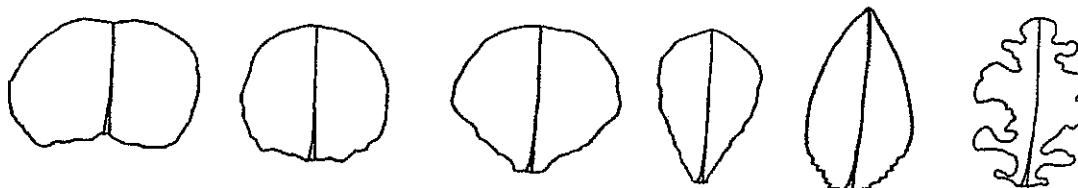
2. SEED:

- | | | | | |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------|
| (a1) <input type="checkbox"/> 1 | (a1) <input type="checkbox"/> 2 | (a1) <input type="checkbox"/> 2 | (a1) <input type="checkbox"/> 2 | HEAT DORMANCY |
| (c1) <input type="checkbox"/> 1 | (c1) <input type="checkbox"/> 2 | (c1) <input type="checkbox"/> 2 | (c1) <input type="checkbox"/> 2 | 1 = Susceptible |
| (c2) <input type="checkbox"/> 1 | (c2) <input type="checkbox"/> 2 | (c2) <input type="checkbox"/> 2 | (c2) <input type="checkbox"/> 2 | 2 = Not Susceptible |
- COLOR
 1 = White (Silver Gray)
 2 = Black (Grey Brown)
 3 = Brown (Amber)
- LIGHT DORMANCY
 1 = Light Required
 2 = Light Not Required

3. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth leaf from 20 day-old seedling grown under optimal conditions.

- | | | | |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| SHAPE OF COTYLEDONS: 1 = Broad | 2 = Intermediate | 3 = Spatulate | |
| (a1) <input type="checkbox"/> 1 | (c1) <input type="checkbox"/> 1 | (c2) <input type="checkbox"/> 1 | |
| SHAPE OF FOURTH LEAF: | (a1) <input type="checkbox"/> 4 | (c1) <input type="checkbox"/> 4 | (c2) <input type="checkbox"/> 4 |

3. COTYLEDON TO FOURTH LEAF STAGE: (continued)



1. Transverse oval 2. Round 3. Oval 4. Elongated 5. Lanceolate 6. Pinnately lobed

LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10

(a1) **25**(c1) **26**(c2) **22****APICAL MARGIN:**

- 1 = Entire
2 = Crenate/Gnawed
3 = Finely Dentate 4 = Moderately Dentate
5 = Coarsely Dentate
6 = Incised 7 = Lobed
8 = Other (Specify) _____

(a1) **1**(c1) **1**(c2) **1****BASAL MARGIN:** (Use the options for Apical Margin above)(a1) **3**(c1) **3**(c2) **3****UNDULATION:**

- 1 = Flat 2 = Slight 3 = Medium 4 = Marked

(a1) **1**(c1) **1**(c2) **1****GREEN COLOR:**
1 = Yellow Green
2 = Light Green

- 3 = Medium Green
4 = Dark Green

- 5 = Blue Green
6 = Silver Green 7 = Grey Green

(a1) **3**(c1) **3**(c2) **3****ANTHOCYANIN:****DISTRIBUTION:**

- 1 = Absent
2 = Margin Only 3 = Spotted
4 = Throughout 5 = Other (Specify) _____

(a1) **1**(c1) **1**(c2) **1****CONCENTRATION:**

- 1 = Light 2 = Moderate 3 = Intense

(a1) **X**(c1) **X**(c2) **X****ROLLING:**

- 1 = Absent 2 = Present

(a1) **1**(c1) **1**(c2) **1****CUPPING:**

- 1 = Uncupped 2 = Slight 3 = Markedly

(a1) **1**(c1) **1**(c2) **1****REFLEXING:**

- 1 = None 2 = Apical Margin 3 = Lateral Margins

(a1) **1**(c1) **1**(c2) **1**

4. MATURE LEAVES (Observe Harvest-Mature Outer Leaves)

NOTE: Provide color photo of a harvest-mature leaf which accurately shows color and margin characteristics.

MARGIN:

INCISION DEPTH: 1 = Absent/Shallow (Dark Green Boston) 2 = Moderate (Vanguard) 3 = Deep (Great Lakes 659)
 (deepest penetration of the margin)

(a1) 1 (c1) t (c2) t

INDENTATION: (Finest divisions of the margin)

1 = Entire (Dark Green Boston) 4 = Crenate (Vanguard)
 2 = Shallowly Dentate (Great Lakes 65) 5 = Other (Specify) _____
 3 = Deeply Dentate (Great Lakes 659)

(a1) 1 (c1) t (c2) t

UNDULATIONS OF THE APICAL MARGIN: 1 = Absent/Slight (Dark Green Boston) 2 = Moderate (Vanguard)
 3 = Strong (Great Lakes 659)

(a1) 1 (c1) t (c2) t

GREEN COLOR: 1 = Very Light Green (Bibb) 3 = Medium Green (Great Lakes)
 2 = Light Green (Minetto) 4 = Dark Green (Vanguard) 5 = Very Dark Green
 6 = Other (Specify) _____

(a1) 3 (c1) 3 (c2) 4

ANTHOCYANIN:

DISTRIBUTION: 1 = Absent 3 = Spotted (California Cream Butter) 5 = Other (Specify) _____
 2 = Margin Only (Big Boston) 4 = Throughout (Prize Head)

(a1) 1 (c1) t (c2) t

CONCENTRATION: 1 = Light (Iceberg) 2 = Moderate (Prize Head) 3 = Intense (Ruby)

(a1) X (c1) X (c2) X

SIZE: 1 = Small 2 = Medium 3 = Large

(a1) 2 (c1) 2 (c2) 2

GLOSSINESS: 1 = Dull (Vanguard) 2 = Moderate (Salinas) 3 = Glossy (Great Lakes)

(a1) 2 (c1) 2 (c2) 3

BLISTERING: 1 = Absent/Slight (Salinas) 2 = Moderate (Vanguard) 3 = Strong (Prize Head)

(a1) 2 (c1) 2 (c2) 3

LEAF THICKNESS: 1 = Thin 2 = Intermediate 3 = Thick

(a1) 2 (c1) 2 (c2) 2

TRICHOMES: 1 = Absent (Smooth) 2 = Present (Spiny)

(a1) 1 (c1) 1 (c2) 1

5. PLANT:

SPREAD OF FRAME LEAVES: (a1) 3 6 cm (c1) 3 4 cm (c2) 3 4 cm

5. PLANT: (continued)

HEAD DIAMETER: (Market Trimmed with Single Cap Leaf)

(a1) cm(c1) cm(c2) cm

HEAD SHAPE:

1 = Flattened

2 = Slightly Flattened

3 = Spherical

4 = Elongate

5 = Non-Heading

6 = Other (Specify) _____

(a1) (c1) (c2)

HEAD SIZE CLASS:

1 = Small

2 = Medium

3 = Large

(a1) (c1) (c2)

HEAD PER CARTON:

(a1) (c1) (c2)

HEAD WEIGHT:

(a1) g.(c1) g.(c2) g.

HEAD FIRMNESS:

1 = Loose

2 = Moderate

3 = Firm

4 = Very Firm

(a1) (c1) (c2)

6. BUTT:

SHAPE:

1 = Slightly Concave

2 = Flat

3 = Rounded

(a1) (c1) (c2)

MIDRIB:

1 = Flattened (Salinas)

2 = Moderately Raised

3 = Prominently Raised (Great Lakes 659)

(a1) (c1) (c2)

7. CORE:

DIAMETER AT BASE OF HEAD:

(a1) mm(c1) mm(c2) mm

RATIO OF HEAD DIAMETER/CORE DIAMETER:

(a1) (c1) (c2)

CORE HEIGHT FROM BASE OF HEAD TO APEX:

(a1) mm(c1) mm(c2) mm

* 8. BOLTING: (Give First Water Date: 04/15/2005) NOTE: First Water Date is the date seed first receives adequate moisture to germinate. This can and often does equal the planting date.

NUMBER OF DAYS FROM FIRST WATER DATE TO SEED STALK EMERGENCE: (summer conditions)

(a1) (c1) (c2)

BOLTING CLASS:

1 = Very Slow

2 = Slow

3 = Medium

4 = Rapid

5 = Very Rapid

(a1) (c1) (c2)

HEIGHT OF MATURE SEED STALK:

10. ADAPTATION: (Continued)

SEASON:

Spring (Area WEST COAST/SOUTH WEST)
 Summer (Area WEST COAST)

Fall (Area WEST COAST/SOUTH WEST)
 Winter (Area SOUTH WEST)

GREENHOUSE: 0 = Not Tested 1 = Not Adapted 2 = Adapted
 SOIL TYPE: 1 = Mineral 2 = Organic 3 = Both

11. VIRAL DISEASES:

	1 = Immune 3 = Resistant	5 = Moderately Resistant/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
Big Vein		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT (Not tested)
Lettuce Mosaic		(a1) <input checked="" type="checkbox"/> **	(c1) <input checked="" type="checkbox"/> 3	(c2) <input checked="" type="checkbox"/> 2
Cucumber Mosaic		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Tomato Bushy Stunt, cause of dieback		(a1) <input checked="" type="checkbox"/> 3	(c1) <input checked="" type="checkbox"/> 3	(c2) <input checked="" type="checkbox"/> 7
Turnip Mosaic		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Beet Western Yellows		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Lettuce Infectious Yellows		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Other (Specify) _____	(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	

12. FUNGAL/BACTERIAL DISEASES:

	1 = Immune 3 = Resistant	5 = Moderately Resistant/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
Corky Root Rot (Races: _____)		(a1) <input checked="" type="checkbox"/> 7	(c1) <input checked="" type="checkbox"/> 7	(c2) <input checked="" type="checkbox"/> 7
Downy Mildew (Races: <u>CA IV, VI</u>)		(a1) <input checked="" type="checkbox"/> 3	(c1) <input checked="" type="checkbox"/> 7	(c2) <input checked="" type="checkbox"/> 3
Powdery Mildew		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Sclerotinia Drop		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Bacterial Soft Rot (<i>Pseudomonas</i> spp. and others)		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Botrytis (Grey Mold)		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Verticillium Wilt		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Bacterial Leaf Spot		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Anthracnose		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Other (Specify) _____	(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	

13. INSECTS:

	1 = Immune 3 = Resistant	5 = Moderately Resistant/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
Cabbage Loopers		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Root Aphids		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Green Peach Aphid		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT
Lettuce Aphid		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/> NT

Pea Leafminer	(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Other (Specify) _____	(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	

14. PHYSIOLOGICAL STRESSES:

	1 = Immune	3 = Resistant	5 = Moderately Resistant/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
Tipburn		(a1) <input type="checkbox"/> 5	(c1) <input type="checkbox"/> 5	(c2) <input type="checkbox"/> 5	
Heat		(a1) <input type="checkbox"/> 5	(c1) <input type="checkbox"/> 5	(c2) <input type="checkbox"/> 5	
Drought		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Cold		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Salt		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Brown Rib (Rib Discoloration, Rib Blight)		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Other (Specify) _____		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	

15. POST HARVEST STRESS:

	1 = Immune	3 = Resistant	5 = Moderately Resistant/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
Pink Rib		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Russet Spotting		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Rusty Brown Discoloration		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Internal Rib Necrosis (Blackheart, Grey Rib, Grey Streak)		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT
Brown Stain		(a1) <input type="checkbox"/>	(c1) <input type="checkbox"/>	(c2) <input type="checkbox"/>	NT

16. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:

17. COMMENTS:

* BOLTING DATA WILL BE SUBMITTED BY THE END OF SUMMER 2005
 ** LMV RESULTS WILL BE SUBMITTED BY FALL 2005

SUGGESTED CHECK VARIETIES

<u>TYPE</u>	<u>CHECK VARIETY</u>
1 Cutting/Leaf	Waldmann's Green
2 Butterhead	Dark Green Boston
3 Bibb	Bibb
4 Cos or Romain	Parris Island
5 Great Lakes Group	Great Lakes 659-700
6 Vanguard Group	Vanguard
7 Salinas Group	Salinas
8 Eastern Group	Ithaca
9 Stem	Celtuce
10 Latin	Little Gem

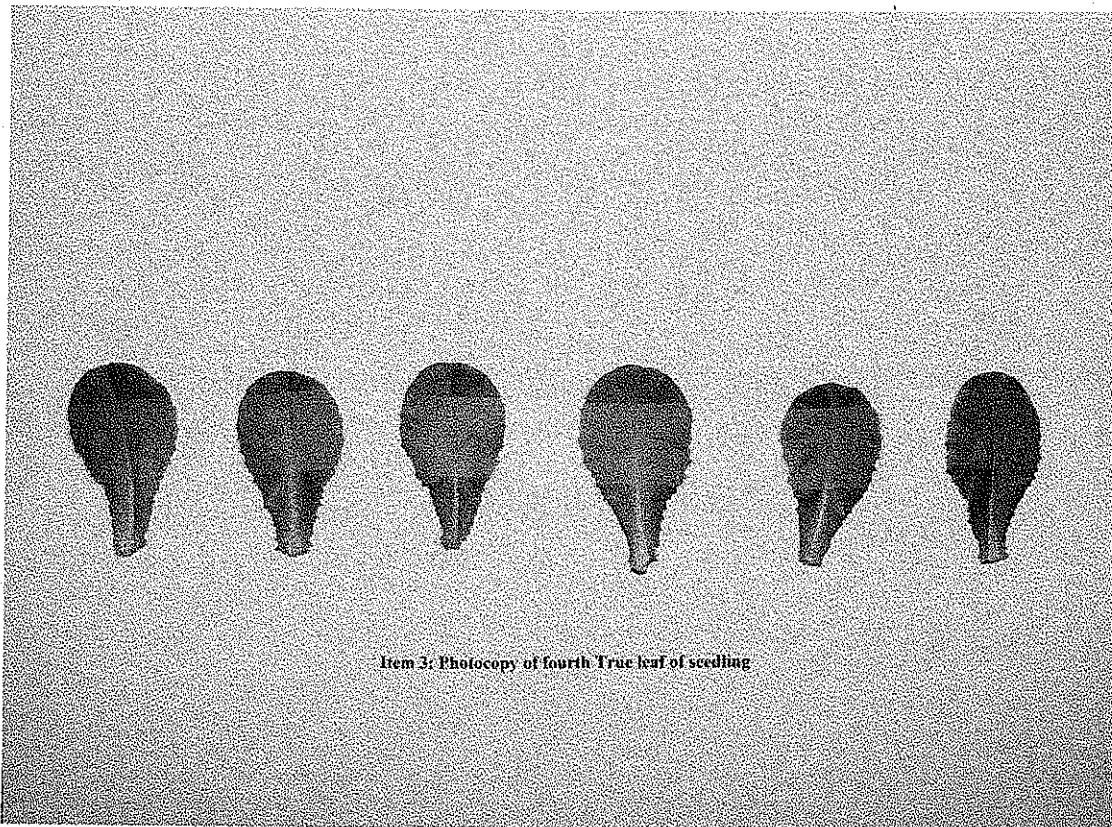
REFERENCES

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- Norwood, J.M., R.W. Michelmore, I.R. Crute and D.S. Ingram. 1983. "The inheritance of specific virulence of *Bremia lactucae* (Downy Mildew) to match R-factors 1, 2, 4, 6, and 11 in lettuce (*Lactuca sativa*)". Plant Pathology 32:176-177.
- Rodenburg, C.M., et al., 1960. "Varieties of Lettuce. An International Monograph", Instituut voor de Verdeling van Tuinbougewassen (IVT), Wageningen, NL.
- Ryder, E.J., 1999, *Lettuce, Endive, and Chicory*, CABI Publications, Wallingford, UK.

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Exhibit C – Salad Pak

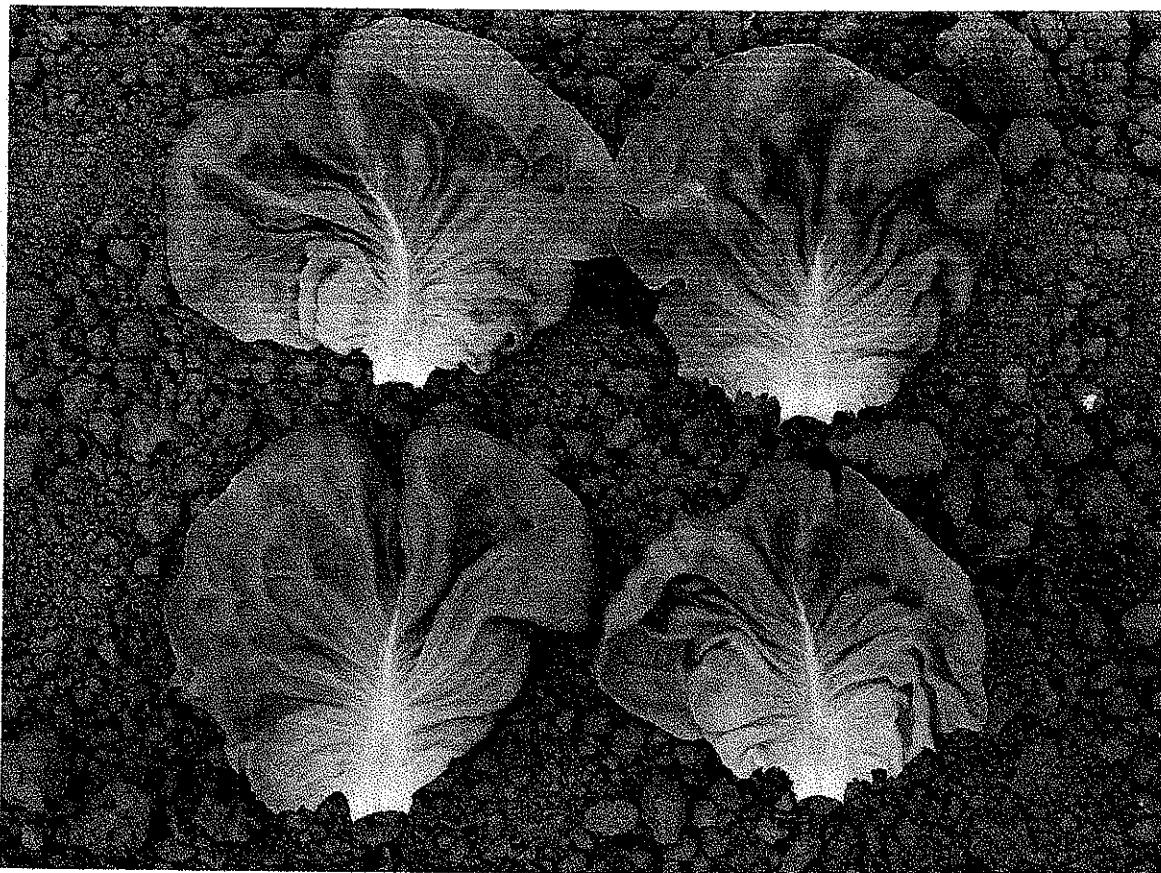
Picture – Fourth True Leaf of ‘Salad Pak’ (24 days)



Item 3: Photocopy of fourth True leaf of seedling

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Exhibit C – Salad Pak
Picture – Mature Leaves of ‘Salad Pack’



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Exhibit C – Salad Pak
Picture – Mature Head of ‘Salad Pack’



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Exhibit C – Salad Pak

Picture – Mature Head of ‘Salad Pack’ (left) versus ‘Nadine’ (right)



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Exhibit C - Salad Pak
Quantitative Data - Complete Data Set

Locatio n	No.	Spread of Frame Leaves (gm)			Head Weight (grams)			Head Diameter (cm)			Head Height (cm)			Core Diameter (mm)			Core Length (mm)		
		Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett
SJB1	1	33.5	33.2	32.4	308.6	382.5	501.0	12.9	10.7	12.7	10.7	12.7	12.9	31.0	27.6	30.0	27.5	28.2	40.0
SJB1	2	34.8	32.8	27.8	322.2	383.6	422.0	12.0	13.2	11.1	12.1	12.1	12.9	27.2	29.8	30.5	29.5	29.8	34.7
SJB1	3	34.0	34.5	32.4	300.5	383.0	309.3	12.1	11.1	11.8	13.0	12.0	26.8	32.0	29.5	28.6	34.5	32.3	
SJB1	4	29.2	32.8	30.8	243.0	389.5	282.0	12.4	12.2	10.9	11.2	12.4	11.5	26.0	30.0	27.2	26.3	27.5	30.0
SJB1	5	31.2	34.2	28.0	312.0	359.8	335.3	11.2	12.0	12.0	12.5	12.4	11.8	26.9	31.2	26.0	28.7	31.0	32.0
SJB1	6	36.4	35.6	31.6	327.1	465.0	314.6	10.7	12.1	12.3	11.7	13.0	11.1	27.5	33.2	27.5	23.6	39.0	29.8
SJB1	7	32.5	31.5	30.5	217.6	266.4	321.0	10.4	11.3	10.5	12.1	11.3	23.8	28.9	29.6	22.3	28.2	30.5	
SJB1	8	37.0	34.8	28.6	295.1	389.8	349.3	11.0	12.5	13.1	11.1	12.2	13.1	28.4	30.8	29.0	21.2	32.0	36.5
SJB1	9	32.3	34.3	30.5	272.8	395.1	377.4	10.2	11.7	12.8	10.5	12.4	12.3	23.0	31.5	30.6	22.0	29.2	37.3
SJB1	10	28.1	34.0	28.6	216.0	352.0	339.0	11.0	13.2	11.8	10.7	12.8	11.6	22.0	29.5	31.0	22.0	28.6	35.0
SJB1	11	25.5	31.4	30.2	173.1	521.0	384.0	10.8	12.1	11.4	9.8	14.4	11.8	25.0	34.0	31.5	19.6	41.5	35.0
SJB1	12	26.4	35.0	30.8	255.6	341.0	314.0	12.0	12.7	12.0	11.8	13.0	25.0	31.0	29.0	25.2	29.3	34.8	
MEAN	SJB1	31.7	33.7	30.2	270.3	385.7	354.1	11.4	12.1	12.2	11.2	12.6	12.1	26.1	30.8	29.3	24.7	31.6	34.0
STDEV	SJB1	3.8	1.3	1.6	49.4	62.4	60.1	0.9	0.8	0.8	0.8	0.7	0.7	2.5	1.8	1.7	3.4	4.5	3.1
SJB2	1	29.8	34.8	34.0	289.5	373.6	372.7	12.4	13.4	11.9	11.4	12.1	11.8	26.4	29.0	30.5	26.7	29.2	39.8
SJB2	2	30.2	35.2	33.8	356.4	279.0	505.8	11.6	12.2	13.5	12.1	11.9	13.3	27.1	27.8	31.0	31.7	26.3	35.5
SJB2	3	31.1	35.8	31.2	283.3	343.0	434.0	11.4	13.0	12.5	11.1	11.3	11.4	26.3	32.0	31.2	31.0	30.0	30.0
SJB2	4	28.5	35.2	32.4	238.0	401.3	376.5	10.9	12.8	12.3	11.0	13.0	12.1	23.0	30.2	29.8	26.3	31.0	32.0
SJB2	5	33.8	35.2	31.4	302.0	435.5	430.5	12.2	12.3	13.2	11.1	12.7	12.3	27.1	33.7	30.5	29.8	37.5	31.8
SJB2	6	28.4	33.1	30.6	255.4	320.5	415.5	10.4	12.2	11.6	9.9	12.2	11.5	23.2	31.8	29.2	19.4	33.2	34.3
SJB2	7	28.6	34.5	31.2	262.5	318.3	451.3	12.2	12.1	13.0	10.3	11.3	12.9	26.0	28.7	30.2	30.0	24.5	37.3
SJB2	8	28.4	31.2	30.4	197.3	415.0	263.2	11.2	13.3	11.7	10.5	12.3	11.0	23.7	31.8	27.0	27.2	31.0	27.4
SJB2	9	30.2	31.4	33.2	227.0	456.8	301.9	10.9	13.3	12.5	10.5	14.0	11.9	26.0	34.8	30.0	27.8	39.8	28.0
SJB2	10	30.1	32.0	32.8	320.8	595.2	441.9	11.0	13.5	11.9	11.6	14.6	13.1	26.3	38.2	31.2	32.8	40.0	37.2
SJB2	11	29.8	35.4	32.3	267.0	459.5	377.4	10.8	13.2	11.5	11.0	13.0	11.6	27.0	34.2	29.2	29.4	32.9	30.0
SJB2	12	31.6	33.6	33.2	239.3	402.6	296.2	11.2	13.4	11.8	10.8	12.8	11.8	23.8	31.4	28.9	28.9	33.8	31.3
MEAN	SJB2	30.0	34.0	32.2	269.9	400.0	388.9	11.3	12.9	12.3	10.9	12.6	12.0	25.5	32.0	29.9	28.0	32.2	32.5
STDEV	SJB2	1.6	1.7	1.2	43.7	84.2	72.2	0.6	0.6	0.7	0.6	1.0	0.7	1.6	2.9	1.2	3.7	4.9	4.2
SJB3	1	37.9	32.8	33.8	503.4	295.4	365.3	11.9	9.9	11.2	13.6	9.8	11.5	34.9	27.2	29.3	47.4	21.1	23.3
SJB3	2	34.5	33.3	34.0	372.4	350.0	471.0	10.4	9.8	11.3	11.9	12.9	12.9	26.9	31.3	29.8	30.8	29.2	28.7
SJB3	3	36.0	33.9	32.9	320.0	310.4	473.2	9.3	9.2	10.4	11.4	10.9	11.7	25.8	23.0	30.8	19.0	12.2	32.7
SJB3	4	36.5	34.8	33.9	357.6	350.0	497.9	9.4	10.4	10.3	11.9	10.4	11.7	31.2	26.3	31.2	32.8	22.0	31.2
SJB3	5	37.2	33.0	31.3	471.4	351.3	405.5	11.9	9.9	10.6	12.9	10.9	12.2	29.9	28.7	28.5	38.5	29.0	27.3
SJB3	6	37.8	32.9	33.8	546.8	289.3	460.0	12.1	10.0	10.9	12.6	10.9	12.4	32.2	30.2	31.4	34.4	24.7	32.1
SJB3	7	34.8	31.0	33.3	484.0	292.0	303.1	12.1	9.6	9.7	13.0	10.0	11.8	32.0	21.8	25.2	35.8	12.2	28.1
SJB3	8	35.7	34.5	38.5	366.4	326.0	432.4	10.8	9.6	12.1	10.4	10.9	29.7	28.2	29.4	33.8	21.7	27.7	
SJB3	9	41.2	31.9	34.8	450.9	282.1	452.1	11.1	10.4	10.8	12.5	10.9	12.2	33.8	26.2	31.3	39.2	20.8	35.8
SJB3	10	35.8	33.9	34.7	475.9	310.9	473.6	11.0	9.5	11.0	12.9	10.1	11.7	30.7	29.4	30.0	29.8	21.0	35.2
SJB3	11	38.0	32.4	35.0	483.8	333.1	493.1	11.9	11.3	11.9	13.0	11.1	12.2	27.7	35.2	35.2	28.0	26.0	32.7
SJB3	12	36.2	35.7	37.6	437.5	328.8	536.2	11.7	10.9	11.4	12.6	10.7	12.9	33.5	32.1	33.1	34.0	24.9	42.2
SJB3	13	37.2	31.5	37.4	336.2	279.5	436.0	9.4	9.6	10.8	10.0	10.7	12.3	23.1	23.9	28.4	14.0	18.2	36.8
SJB3	14	38.1	30.9	36.2	372.0	300.0	491.8	12.0	10.6	11.2	9.7	11.2	9.7	31.4	28.8	32.7	33.2	28.0	34.4

Exhibit C - Salad Pak
Quantitative Data - Complete Data Set (continue)

Location	No.	Spread of Frame Leaves (cm)			Head Weight (grams)			Head Diameter (cm)			Head Height (cm)			Core Diameter (mm)			Core Length (mm)		
		Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett
SJB3	15	37.4	33.8	34.3	278.3	250.0	360.0	8.9	9.6	9.6	10.3	10.5	11.0	23.8	25.4	27.7	16.0	20.8	23.8
SJB3	16	37.8	33.0	34.8	334.1	304.2	355.0	11.9	9.8	10.1	11.5	10.6	10.4	28.0	26.1	26.2	29.2	21.7	23.8
SJB3	17	44.7	32.5	36.0	376.7	277.3	414.2	10.9	10.0	11.1	12.4	11.8	11.7	26.2	27.2	28.1	43.8	23.5	26.2
SJB3	18	42.7	35.0	33.0	550.5	314.6	315.8	13.1	9.4	9.2	12.4	10.4	10.3	34.7	26.8	27.1	39.2	22.1	28.0
SJB3	19	36.2	35.7	33.2	358.8	387.2	314.5	10.6	10.8	10.4	12.4	12.5	11.0	29.2	31.6	31.6	28.2	24.5	29.5
SJB3	20	36.2	33.0	34.8	300.2	291.0	355.0	10.3	10.4	9.9	11.0	10.8	11.3	25.5	28.8	28.2	24.5	20.7	20.7
MEAN	SJB3	37.6	33.3	34.7	409.8	311.2	420.3	11.0	10.1	10.6	12.1	10.7	11.8	29.5	27.5	29.6	31.3	22.8	23.3
STDEV	SJB3	2.6	1.4	1.8	81.8	32.3	69.7	1.1	0.6	0.7	0.9	0.7	0.8	3.5	2.8	2.5	8.8	4.9	5.5
SJB4	1	36.8	33.4	34.2	395.5	264.0	367.0	10.9	11.1	10.7	11.3	11.3	11.3	26.2	22.8	22.4	14.9	22.4	33.2
SJB4	2	32.8	34.9	36.3	424.9	277.0	526.4	11.2	10.0	11.4	11.3	11.1	11.9	30.8	33.0	33.5	31.2	26.5	34.0
SJB4	3	37.2	31.7	35.6	390.8	331.1	358.2	10.9	10.9	10.9	11.2	11.0	11.4	28.3	25.0	28.3	26.2	21.8	25.0
SJB4	4	36.2	32.3	34.7	426.1	251.6	500.0	11.4	10.9	12.1	11.3	10.7	12.9	25.2	25.5	33.1	18.8	18.1	35.5
SJB4	5	39.5	34.5	33.8	384.6	289.0	483.1	10.7	9.7	11.4	12.8	10.8	11.6	27.8	30.1	30.8	26.4	29.0	35.1
SJB4	6	40.3	30.4	33.8	493.3	395.1	418.1	11.8	11.6	11.0	12.4	12.5	11.2	29.8	28.3	31.1	32.1	23.0	29.8
SJB4	7	34.6	33.7	30.9	462.4	295.4	267.3	11.8	10.0	9.7	12.7	10.4	9.5	35.1	29.5	24.7	33.0	22.0	18.9
SJB4	8	37.2	31.0	34.4	312.5	300.6	364.0	11.5	10.7	10.2	10.8	11.5	11.3	27.8	25.0	27.2	29.9	19.2	22.2
SJB4	9	34.9	31.1	37.9	317.8	237.2	502.6	11.9	9.2	11.0	11.6	10.5	11.9	24.8	25.0	30.1	30.2	23.2	34.1
SJB4	10	39.0	31.2	36.5	311.3	275.1	338.6	11.6	9.4	9.9	12.7	11.8	12.1	29.2	28.0	23.8	33.3	31.9	22.9
SJB4	11	33.5	34.2	34.3	277.4	374.4	299.0	9.9	11.1	9.4	11.0	12.7	9.4	21.1	31.0	24.2	14.8	34.2	19.5
SJB4	12	40.2	33.8	32.8	598.5	386.7	474.1	12.4	11.1	10.9	13.4	11.3	11.3	31.5	31.2	27.1	34.6	29.0	28.0
SJB4	13	37.0	35.4	34.2	453.8	300.0	305.9	12.1	10.5	9.4	12.9	9.9	9.9	30.4	28.0	25.5	39.3	24.8	23.3
SJB4	14	35.6	33.1	35.0	328.1	332.5	277.8	9.1	11.9	9.5	10.6	11.7	10.4	29.0	32.3	26.1	26.4	37.5	20.8
SJB4	15	39.9	34.2	35.2	528.6	327.6	453.0	12.1	10.1	11.7	12.8	11.8	11.2	33.2	30.5	27.6	41.0	24.8	33.3
SJB4	16	39.5	32.2	32.8	439.1	218.8	322.2	11.2	8.9	9.6	11.4	10.1	9.7	28.2	26.2	22.3	26.3	16.1	17.0
SJB4	17	35.0	31.5	32.6	271.7	277.1	364.3	8.2	10.7	9.9	10.2	10.2	10.8	24.8	21.8	26.2	19.3	14.7	25.8
SJB4	18	36.0	29.7	35.3	262.2	209.6	321.7	9.5	11.9	8.9	9.9	10.0	11.1	27.2	26.0	28.0	29.5	18.5	21.7
SJB4	19	38.9	36.9	33.8	404.6	397.6	360.0	10.8	11.5	9.7	12.0	11.5	9.6	27.5	29.5	23.7	33.2	24.0	15.1
SJB4	20	42.0	32.8	33.3	426.0	326.0	353.2	10.2	10.7	8.6	11.5	11.0	10.7	26.3	28.0	27.7	27.0	24.3	25.6
MEAN	SJB4	37.3	32.9	34.3	395.5	303.0	382.8	11.0	10.6	10.3	11.7	11.1	11.0	28.2	27.8	27.4	28.4	23.8	26.0
STDEV	SJB4	2.5	1.8	1.5	89.7	55.9	80.4	1.1	0.9	1.0	1.0	0.8	1.0	3.2	3.1	3.1	6.7	6.2	6.5
SAL5	1	40.9	38.2	34.4	253.9	209.9	232.2	10.9	11.4	13.7	11.3	11.3	12.2	22.2	29.9	23.2	18.7	15.8	23.4
SAL5	2	40.8	33.8	32.5	314.8	230.0	316.9	10.7	10.1	13.2	12.2	10.6	12.8	23.7	14.5	23.5	20.6	6.5	29.3
SAL5	3	37.3	34.4	31.9	202.8	220.7	203.4	9.7	11.2	10.2	9.6	10.4	10.9	19.2	22.2	23.6	11.1	14.8	21.0
SAL5	4	41.1	37.6	37.2	309.8	300.0	366.5	11.3	11.7	13.2	12.1	12.4	12.5	24.2	23.5	24.6	22.1	17.7	27.8
SAL5	5	41.0	35.0	40.1	214.8	294.4	310.4	10.9	9.9	11.8	11.4	11.1	12.8	19.1	19.9	25.0	13.8	11.2	28.0
SAL5	6	39.5	35.8	31.9	199.3	266.3	245.2	9.9	10.9	12.6	9.6	11.8	11.4	18.2	19.8	22.2	8.7	16.8	22.7
SAL5	7	36.4	37.9	35.0	252.4	242.5	355.4	10.8	12.3	9.4	9.9	12.2	12.3	23.8	21.6	24.5	20.7	18.4	25.9
SAL5	8	36.8	32.3	36.2	285.1	204.2	290.8	11.1	9.8	12.9	11.3	10.1	12.0	25.4	21.7	24.1	22.8	15.8	23.3
SAL5	9	37.8	36.3	33.8	212.9	314.9	208.9	11.7	10.2	9.9	10.9	11.1	11.3	20.2	25.4	24.4	11.1	23.6	24.2
SAL5	10	35.3	33.2	31.0	252.5	238.5	220.0	10.2	9.4	11.0	11.2	11.3	21.7	23.2	23.0	22.9	17.1	20.5	
SAL5	11	34.9	25.5	210.8	231.9	263.8	9.9	9.7	11.3	10.3	9.4	11.5	19.7	20.8	25.7	18.5	21.2	28.1	
SAL5	12	41.0	36.5	31.6	235.4	275.3	219.8	9.6	9.4	11.3	10.6	10.1	11.4	20.4	21.3	20.4	11.8	14.7	21.1

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**Exhibit C - Salad Pak
Quantitative Data - Complete Data Set (continue)**

Locatio n	No.	Spread of Frame Leaves (cm)			Head Weight (grams)			Head Diameter (cm)			Head Height (cm)			Core Diameter (mm)			Core Length (mm)		
		Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett
SAL5	13	39.4	35.2	33.7	282.8	283.1	221.6	11.1	10.4	11.2	10.9	10.3	11.8	24.9	23.3	21.5	23.8	17.6	20.8
SAL5	14	35.8	33.9	33.5	261.5	349.5	206.9	10.1	10.7	10.7	10.8	10.9	10.5	23.9	28.4	22.4	17.9	23.8	23.3
SAL5	15	38.3	33.6	34.8	275.6	197.6	282.7	10.4	9.5	12.0	9.7	9.3	11.5	19.6	19.7	25.0	13.2	13.0	25.0
SAL5	16	39.9	34.2	34.1	314.4	363.7	192.9	10.4	10.7	9.8	10.6	11.2	10.6	24.3	26.8	21.2	16.2	23.2	18.0
SAL5	17	37.7	35.2	294.4	277.2	308.8	9.2	10.8	11.7	10.6	10.3	11.3	22.9	23.9	25.3	14.5	14.5	16.2	24.1
SAL5	18	38.7	34.6	33.9	326.0	210.5	312.8	9.7	10.6	12.4	10.8	10.2	12.3	25.3	21.4	23.6	21.3	15.7	25.7
SAL5	19	36.2	34.8	33.9	207.4	264.4	303.8	9.2	10.4	11.6	9.9	10.9	11.0	18.8	14.2	24.5	10.7	9.9	22.5
SAL5	20	38.3	35.8	31.1	276.5	280.6	190.9	11.9	10.1	10.6	9.7	9.9	10.0	19.3	27.9	22.5	12.2	21.3	20.3
MEAN	SAL5	38.4	35.2	33.5	259.2	262.8	262.7	10.4	10.4	11.7	10.6	10.6	11.5	21.8	22.5	23.5	16.6	16.7	23.8
STDEV	SAL5	2.0	1.6	2.9	41.5	47.0	55.4	0.8	0.7	1.1	0.8	0.8	0.8	2.5	4.0	1.5	4.9	4.5	3.0
SAL6	1	38.3	35.6	35.8	245.0	286.1	344.7	9.8	9.8	13.1	10.0	10.8	12.9	25.0	21.2	24.3	21.1	17.9	28.2
SAL6	2	38.8	33.9	35.9	286.4	184.6	336.4	10.3	9.9	12.2	11.4	9.4	11.4	22.9	22.3	24.6	16.4	16.2	25.3
SAL6	3	37.9	32.0	35.0	339.8	197.4	279.3	11.4	9.8	12.1	10.9	10.0	11.7	24.9	20.8	23.5	23.8	16.1	24.5
SAL6	4	40.2	37.2	31.8	357.5	337.7	207.3	11.0	11.1	10.8	11.7	11.2	11.6	27.2	26.8	20.9	28.1	22.1	23.4
SAL6	5	35.8	34.9	34.5	280.9	236.6	327.1	10.7	8.9	10.3	10.5	9.2	11.6	24.9	19.7	26.4	17.8	12.1	21.8
SAL6	6	35.2	35.2	33.8	258.2	250.2	288.3	10.6	10.4	11.0	10.4	9.6	11.9	23.6	24.9	22.1	19.2	13.8	25.0
SAL6	7	37.3	34.1	37.1	254.9	318.5	329.8	10.2	10.5	11.5	10.1	11.4	13.2	24.7	23.8	25.5	22.1	20.9	29.6
SAL6	8	40.5	35.9	37.5	303.1	207.4	398.8	10.7	9.9	13.3	11.8	9.6	13.2	26.2	23.5	25.7	25.8	17.3	30.0
SAL6	9	36.3	32.8	33.1	250.2	236.6	371.9	9.1	10.8	13.0	10.9	9.7	11.3	19.9	23.1	23.4	13.7	18.8	20.5
SAL6	10	38.9	37.2	33.6	254.8	238.4	177.6	10.3	10.7	10.8	10.5	10.1	10.9	23.7	23.4	22.0	21.9	17.9	21.6
SAL6	11	39.3	34.8	32.7	295.0	183.2	260.8	10.6	9.4	11.3	10.8	10.4	10.7	19.8	24.8	23.0	17.4	18.1	26.1
SAL6	12	38.3	34.8	33.0	296.8	239.4	217.5	11.4	9.9	11.4	10.9	9.8	10.7	26.8	20.7	24.5	23.9	12.9	20.8
SAL6	13	34.9	39.7	33.2	267.9	244.9	303.3	10.1	10.9	11.5	10.1	10.9	10.9	21.3	19.8	24.9	17.7	14.8	26.0
SAL6	14	38.0	35.9	33.3	253.4	198.2	249.5	9.5	8.7	9.8	9.5	9.9	10.8	22.8	19.2	23.5	16.9	13.4	26.0
SAL6	15	40.1	29.4	34.0	282.5	218.9	276.5	10.8	9.6	11.8	10.9	9.6	11.9	19.8	24.9	24.0	17.2	19.6	21.6
SAL6	16	37.9	35.0	34.5	351.0	193.1	283.2	9.5	10.6	11.3	10.4	10.2	12.0	24.8	20.2	25.4	20.7	12.4	23.0
SAL6	17	37.2	34.4	36.5	283.5	228.2	289.4	10.9	8.9	10.7	11.5	10.2	11.9	21.8	24.2	24.2	22.3	14.8	28.2
SAL6	18	37.6	39.2	32.5	234.8	242.2	218.6	9.8	10.8	11.4	9.7	10.6	11.4	20.2	24.8	23.5	12.3	19.7	22.0
SAL6	19	34.9	35.3	34.9	206.4	253.4	267.8	9.1	9.6	12.3	9.4	9.8	11.8	21.7	26.2	22.9	17.6	17.7	25.0
SAL6	20	38.2	35.4	31.9	279.9	241.4	289.6	10.5	10.4	11.5	10.8	10.3	11.5	21.0	24.3	23.8	18.2	18.3	25.2
MEAN	SAL6	37.8	35.1	34.2	279.1	236.8	285.9	10.3	10.0	11.6	10.6	10.1	11.7	23.2	22.9	23.9	19.7	16.7	24.7
STDEV	SAL6	1.7	2.3	1.7	38.3	40.8	56.0	0.7	0.7	0.9	0.7	0.6	0.7	2.4	2.3	1.4	4.0	2.9	2.5
MEAN TOTAL		36.2	34.0	33.5	320.7	304.8	345.7	10.8	11.3	11.2	11.1	11.6	11.1	25.7	26.6	24.6	22.8	27.7	
STDEV TOTAL		3.8	1.9	2.3	89.8	75.7	88.2	1.0	1.2	1.1	1.0	1.1	0.9	3.9	4.5	3.3	7.9	7.5	5.7

Locations:

- SJB 1 : REP 1, 525 Lucy Brown Lane, San Juan Bautista, CA. sow date: 3/05/05, evaluation date: 5/11/05, maturity date: Salad Pak 5/15/05, Margarita 5/11/05, Bennett 5/10/05
- SJB 2 : REP 2, idem
- SJB 3 : REP 1, 525 Lucy Brown Lane, San Juan Bautista, CA. sow date: 4/15/05, evaluation date: 6/21/05, maturity date: Salad Pack 6/21/05, Margarita 6/20/05, Bennett 6/18/05
- SJB 4 : REP 2, idem
- SAL 5 : REP 1, Martella Orcutt Ranch 15, Salinas, CA. sow date: 4/2/05, evaluation date: 6/12/05, Margarita 6/10/05, Bennett 6/8/05
- SAL 6 : REP 2, idem

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Exhibit C - Salad Pak

Quantitative Data - Length / Width Fourth True Leaf Stage (24 days)

No.	Length / Width Fourth True Leaf Stage (cm)								
	Salad Pak			Margarita			Bennett		
	Length	Width	Ratio L/W	Length	Width	Ratio L/W	Length	Width	Ratio L/W
1	8.57	3.81	22.50	8.89	3.18	28.00	5.08	3.18	16.00
2	9.53	3.81	25.00	8.26	3.49	23.64	5.40	2.86	18.89
3	6.99	3.18	22.00	8.89	3.18	28.00	7.62	3.81	20.00
4	9.53	4.13	23.08	8.89	3.81	23.33	7.62	3.81	20.00
5	8.26	3.49	23.64	9.53	3.18	30.00	8.26	3.81	21.67
6	7.62	3.81	20.00	8.89	3.49	25.45	6.99	3.49	20.00
7	10.16	3.81	26.67	8.89	3.49	25.45	7.62	3.49	21.82
8	7.62	3.18	24.00	8.89	3.49	25.45	7.62	3.18	24.00
9	9.53	3.18	30.00	9.21	3.81	24.17	6.35	2.86	22.22
10	7.62	3.18	24.00	9.53	3.81	25.00	7.62	3.18	24.00
11	7.94	3.49	22.73	9.53	3.81	25.00	7.62	3.81	20.00
12	9.53	3.81	25.00	8.89	3.49	25.45	8.26	3.49	23.64
13	8.26	3.49	23.64	8.89	3.18	28.00	6.99	3.81	18.33
14	9.53	3.18	30.00	8.26	3.18	26.00	7.62	3.81	20.00
15	8.89	2.86	31.11	8.26	2.86	28.89	6.99	3.18	22.00
16	7.62	3.18	24.00	8.89	3.49	25.45	7.62	2.86	26.67
17	9.53	3.81	25.00	10.16	3.81	26.67	7.62	3.18	24.00
18	8.26	3.81	21.67	8.89	3.81	23.33	7.94	2.86	27.78
19	8.89	3.81	23.33	9.53	3.18	30.00	7.62	3.49	21.82
20	9.21	3.49	26.36	8.89	3.49	25.45	6.67	3.81	17.50
MEAN	8.65	3.52	24.69	9.00	3.46	26.14	7.25	3.40	21.52
STDEV	0.90	0.34	2.90	0.48	0.29	2.04	0.84	0.37	2.94

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Exhibit C - Salad Pak

Quantitative data - Spread of Frame Leaves

SJB 1 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 3/05/05 evaluation date 5/11/05

SJB 2 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 3/05/05 evaluation date 5/11/05

spread of frame leaves (cm)			
SJB1		SJB2	
	Salad Pak	Margarita	Salad Pak
1	33.5	33.2	29.8
2	34.8	32.8	30.2
3	34.0	34.5	31.1
4	29.2	32.8	28.5
5	31.2	34.2	33.8
6	36.4	35.6	28.4
7	32.5	31.5	28.6
8	37.0	34.8	28.4
9	32.3	34.3	30.2
10	28.1	34.0	30.1
11	25.5	31.4	29.8
12	26.4	35.0	31.6
			33.6

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
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SJB1

Count	12	12	24
Sum	380.9	404.1	785
Average	31.7416667	33.675	32.7083333
Variance	14.117197	1.80386364	8.58949275

SJB2

Count	12	12	24
Sum	360.5	407.4	767.9
Average	30.0416667	33.95	31.9958333
Variance	2.51719697	2.72272727	6.49085145

Total

Count	24	24	
Sum	741.4	811.5	
Average	30.8916667	33.8125	
Variance	8.70949275	2.18461957	

ANOVA

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	6.091875	1	6.091875	1.15152958	0.28907942	4.06170386
Variety	102.375208	1	102.375208	19.3516907	6.8103E-05	4.06170386
Rep x Var	11.701875	1	11.701875	2.21197172	0.14407529	4.06170386
Error	232.770833	44	5.29024621			
Total	352.939792	47				

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Exhibit C - Salad Pak**Quantitative data - Head Weight**

SJB 1 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 3/05/05 evaluation date 5/11/05

SJB 2 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 3/05/05 evaluation date 5/11/05

head weight (grams)			
SJB1		SJB2	
	Salad Pak	Margarita	Salad Pak
1	308.6	382.5	289.5
2	322.2	383.6	356.4
3	300.5	383.0	283.3
4	243.0	389.5	238.0
5	312.0	359.8	302.0
6	327.1	465.0	255.4
7	217.6	266.4	262.5
8	295.1	389.8	197.3
9	272.8	395.1	227.0
10	216.0	352.0	320.8
11	173.1	521.0	267.0
12	255.6	341.0	239.3
			402.6

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
<i>SJB1</i>			
Count	12	12	24
Sum	3243.6	4628.7	7872.3
Average	270.3	385.725	328.0125
Variance	2435.81455	3888.47295	6500.20636
<i>SJB2</i>			
Count	12	12	24
Sum	3238.5	4800.3	8038.8
Average	269.875	400.025	334.95
Variance	1909.61295	7085.93841	8721.09565
<i>Total</i>			
Count	24	24	
Sum	6482.1	9429	
Average	270.0875	392.875	
Variance	2078.29505	5301.97674	

ANOVA

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	577.546875	1	577.546875	0.15079711	0.69964739	4.06170386
Variety	180921.242	1	180921.242	47.238419	1.7552E-08	4.06170386
Rep x Var	650.476875	1	650.476875	0.16983909	0.68225582	4.06170386
Error	168518.227	44	3829.95972			
Total	350667.493	47				

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Exhibit C - Salad Pak

Quantitative data - Head Diameter

SJB 1 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 3/05/05 evaluation date 5/11/05

SJB 2 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 3/05/05 evaluation date 5/11/05

head diameter (cm)			
SJB1		SJB2	
	Salad Pak	Margarita	Salad Pak
1	12.9	10.7	12.4
2	12.0	13.2	11.6
3	12.1	11.1	11.4
4	12.4	12.2	10.9
5	11.2	12.0	12.2
6	10.7	12.1	10.4
7	10.4	11.3	12.2
8	11.0	12.5	11.2
9	10.2	11.7	10.9
10	11.0	13.2	11.0
11	10.8	12.1	10.8
12	12.0	12.7	11.2
			13.4

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total			
<u>SJB1</u>						
Count	12	12	24			
Sum	136.61	144.68	281.29			
Average	11.3841667	12.0566667	11.7204167			
Variance	0.75119015	0.60851515	0.76827373			
<u>SJB2</u>						
Count	12	12	24			
Sum	136.16	154.53	290.69			
Average	11.3466667	12.8775	12.1120833			
Variance	0.4017697	0.31056591	0.95201721			
<u>Total</u>						
Count	24	24				
Sum	272.77	299.21				
Average	11.3654167	12.4670833				
Variance	0.55178243	0.61532591				
<u>ANOVA</u>						
Source of Variation	SS	df	MS	F	P-value	F crit
Rep	1.84083333	1	1.84083333	3.55366214	0.06602877	4.06170386
Variety	14.5640333	1	14.5640333	28.1153394	3.5311E-06	4.06170386
Rep x Var	2.21020833	1	2.21020833	4.26672721	0.04478626	4.06170386
Error	22.79245	44	0.51801023			
Total	41.407525	47				

26

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Exhibit C - Salad Pak

Quantitative data - Head Height

SJB 1 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 3/05/05 evaluation date 5/11/05

SJB 2 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 3/05/05 evaluation date 5/11/05

head height (cm)				
	SJB1		SJB2	
	Salad Pak	Margarita	Salad Pak	Margarita
1	10.7	12.7	11.4	12.1
2	12.1	12.1	12.1	11.9
3	11.8	13.0	11.1	11.3
4	11.2	12.4	11.0	13.0
5	12.5	12.4	11.1	12.7
6	11.7	13.0	9.9	12.2
7	10.5	12.1	10.3	11.3
8	11.1	12.2	10.5	12.3
9	10.5	12.4	10.5	14.0
10	10.7	12.8	11.6	14.6
11	9.8	14.4	11.0	13.0
12	12.0	11.8	10.8	12.8

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
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SJB1

Count	12	12	24
Sum	134.53	151.27	285.8
Average	11.2108333	12.6058333	11.9083333
Variance	0.66449924	0.45139015	1.04134493

SJB2

Count	12	12	24
Sum	131.27	151.06	282.33
Average	10.9391667	12.5883333	11.76375
Variance	0.35549924	0.97076061	1.34379837

Total

Count	24	24	
Sum	265.8	302.33	
Average	11.075	12.5970833	
Variance	0.50707826	0.68023895	

ANOVA

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	0.25085208	1	0.25085208	0.41087101	0.52485253	4.06170386
Variety	27.8008521	1	27.8008521	45.5350584	2.679E-08	4.06170386
Rep x Var	0.19380208	1	0.19380208	0.31742873	0.5760172	4.06170386
Error	26.8636417	44	0.61053731			
Total	55.1091479	47				

Exhibit C - Salad Pak

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Quantitative data - Core Diameter

SJB 1 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 3/05/05 evaluation date 5/11/05

SJB 2 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 3/05/05 evaluation date 5/11/05

core diameter (mm)			
SJB1		SJB2	
	Salad Pak	Margarita	Salad Pak
1	31.0	27.6	26.4
2	27.2	29.8	27.1
3	26.8	32.0	26.3
4	26.0	30.0	23.0
5	26.9	31.2	27.1
6	27.5	33.2	23.2
7	23.8	28.9	26.0
8	28.4	30.8	23.7
9	23.0	31.5	26.0
10	22.0	29.5	26.3
11	25.0	34.0	27.0
12	25.0	31.0	23.8
			31.4

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SJB1			
Count	12	12	24
Sum	312.6	369.5	682.1
Average	26.05	30.7916667	28.4208333
Variance	6.15545455	3.20992424	10.3443297
SJB2			
Count	12	12	24
Sum	305.9	383.6	689.5
Average	25.4916667	31.9666667	28.7291667
Variance	2.51174242	8.65515152	16.277808
Total			
Count	24	24	
Sum	618.5	753.1	
Average	25.7708333	31.3791667	
Variance	4.22650362	6.03476449	

ANOVA

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	1.14083333	1	1.14083333	0.22225174	0.63965886	4.06170386
Variety	377.440833	1	377.440833	73.5312332	6.1191E-11	4.06170386
Rep x Var	9.01333333	1	9.01333333	1.75593485	0.19197275	4.06170386
Error	225.855	44	5.13306818			
Total	613.45	47				

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Exhibit C - Salad Pak

Quantitative data - Core Length

SJB 1 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 3/05/05 evaluation date 5/11/05
 SJB 2 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 3/05/05 evaluation date 5/11/05

core length (mm)				
	SJB1		SJB2	
	Salad Pak	Margarita	Salad Pak	Margarita
1	27.5	28.2	26.7	29.2
2	29.5	29.8	31.7	26.3
3	28.6	34.5	31.0	30.0
4	26.3	27.5	26.3	31.0
5	28.7	31.0	29.8	37.5
6	23.6	39.0	19.4	33.2
7	22.3	28.2	30.0	24.5
8	21.2	32.0	27.2	31.0
9	22.0	29.2	27.8	39.8
10	22.0	28.6	32.8	40.0
11	19.6	41.5	29.4	32.9
12	25.2	29.3	23.8	31.3

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
<i>SJB1</i>			
Count	12	12	24
Sum	296.5	378.8	675.3
Average	24.7083333	31.5666667	28.1375
Variance	11.337197	20.4460606	27.4711413
<i>SJB2</i>			
Count	12	12	24
Sum	335.9	386.7	722.6
Average	27.9916667	32.225	30.1083333
Variance	13.7990152	23.6184091	22.5703623
<i>Total</i>			
Count	24	24	48
Sum	632.4	765.5	1397.9
Average	26.35	31.8958333	28.24375
Variance	14.833913	21.1873732	18.5050625

ANOVA

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	46.6102083	1	46.6102083	2.69420515	0.1078435	4.06170386
Variety	369.075208	1	369.075208	21.3336169	3.3574E-05	4.06170386
Rep x Var	20.671875	1	20.671875	1.1948943	0.28029332	4.06170386
Error	761.2075	44	17.3001705			
Total	1197.56479	47				

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Exhibit C - Salad Pak

Quantitative data - Spread of Frame Leaves

SJB 3 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 4/15/05 evaluation date 6/21/05
 SJB 4 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 4/15/05 evaluation date 6/21/05

spread of frame leaves (cm)				
	SJB3		SJB4	
	Salad Pak	Margarita	Salad Pak	Margarita
1	37.9	32.8	36.8	33.4
2	34.5	33.3	32.8	34.9
3	36.0	33.9	37.2	31.7
4	36.5	34.8	36.2	32.3
5	37.2	33.0	39.5	34.5
6	37.8	32.9	40.3	30.4
7	34.8	31.0	34.6	33.7
8	35.7	34.5	37.2	31.0
9	41.2	31.9	34.9	31.1
10	35.8	33.9	39.0	31.2
11	38.0	32.4	33.5	34.2
12	36.2	35.7	40.2	33.8
13	37.2	31.5	37.0	35.4
14	38.1	30.9	35.6	33.1
15	37.4	33.8	39.9	34.2
16	37.8	33.0	39.5	32.2
17	44.7	32.5	35.0	31.5
18	42.7	35.0	36.0	29.7
19	36.2	35.7	38.9	36.9
20	36.2	33.0	42.0	32.8

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SJB3			
Count	20	20	40
Sum	751.9	665.5	1417.4
Average	37.595	33.275	35.435
Variance	6.5405	1.97039474	8.9315641
SJB4			
Count	20	20	40
Sum	746.1	658	1404.1
Average	37.305	32.9	35.1025
Variance	6.34576316	3.39052632	9.71871154
Total			
Count	40	40	
Sum	1498	1323.5	
Average	37.45	33.0875	
Variance	6.29948718	2.64778846	

ANOVA						
Source of Variati	SS	df	MS	F	P-value	F crit
Rep	2.211125	1	2.211125	0.48470492	0.48842263	3.96676114
Variety	380.628125	1	380.628125	83.4382161	7.3822E-14	3.96676114
Rep x Var	0.036125	1	0.036125	0.00791903	0.92932479	3.96676114
Error	346.6965	76	4.56179605			
Total	729.571875	79				

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Exhibit C - Salad Pak

Quantitative data - Head Weight

SJB 3 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 4/15/05 evaluation date 6/21/05

SJB 4 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 4/15/05 evaluation date 6/21/05

head weight (grams)				
	SJB3		SJB4	
	Salad Pak	Margarita	Salad Pak	Margarita
1	503.4	295.4	395.5	264.0
2	372.4	350.0	424.9	277.0
3	320.0	310.4	390.8	331.1
4	357.6	350.0	426.1	251.6
5	471.4	351.3	384.6	289.0
6	546.8	289.3	493.3	395.1
7	484.0	292.0	462.4	295.4
8	386.4	326.0	312.5	300.6
9	450.9	282.1	317.8	237.2
10	475.9	310.9	311.3	275.1
11	483.8	333.1	277.4	374.4
12	437.5	328.8	598.5	386.7
13	336.2	279.5	453.8	300.0
14	372.0	300.0	328.1	332.5
15	278.3	250.0	528.6	327.6
16	334.1	304.2	439.1	218.8
17	376.7	277.3	271.7	271.1
18	550.5	314.6	262.2	209.6
19	358.8	387.2	404.6	397.6
20	300.2	291.0	426.0	326.0

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
<u>SJB3</u>			
Count	20	20	40
Sum	8196.9	6223.1	14420
Average	409.845	311.155	360.5
Variance	6696.88576	1044.32997	6268.72462
<u>SJB4</u>			
Count	20	20	40
Sum	7909.2	6060.4	13969.6
Average	395.46	303.02	349.24
Variance	8043.22042	3125.03011	7632.00759
<u>Total</u>			
Count	40	40	
Sum	16106.1	12283.5	
Average	402.6525	307.0875	
Variance	7234.13589	2048.19548	

ANOVA						
Source of Variati	SS	df	MS	F	P-value	F crit
Rep	2535.752	1	2535.752	0.53639843	0.4661819	3.96676114
Variety	182653.385	1	182653.385	38.637449	2.5259E-08	3.96676114
Rep x Var	195.3125	1	195.3125	0.04131529	0.83947378	3.96676114
Error	359279.859	76	4727.36657			
Total	544664.308	79				

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Exhibit C - Salad Pak

Quantitative data - Head Diameter

SJB 3 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 4/15/05 evaluation date 6/21/05

SJB 4 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 4/15/05 evaluation date 6/21/05

	head diameter (cm)			
	SJB3		SJB4	
	Salad Pak	Margarita	Salad Pak	Margarita
1	11.9	9.9	10.9	10.9
2	10.4	9.8	11.2	10.0
3	9.3	9.2	10.9	10.9
4	9.4	10.4	11.4	10.9
5	11.9	9.9	10.7	9.7
6	12.1	10.0	11.8	11.6
7	12.1	9.6	11.8	10.0
8	10.8	10.2	11.5	10.7
9	11.1	10.4	11.9	9.2
10	11.0	9.5	11.6	9.4
11	11.9	11.3	9.9	11.1
12	11.7	10.9	12.4	11.1
13	9.4	9.6	12.1	10.5
14	12.0	10.6	9.1	11.9
15	8.9	9.6	12.1	10.1
16	11.9	9.8	11.2	8.9
17	10.9	10.0	8.2	10.7
18	13.1	9.4	9.5	11.9
19	10.6	10.8	10.8	11.5
20	10.3	10.4	10.2	10.7

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
<u>SJB3</u>			
Count	20	20	40
Sum	220.7	201.3	422
Average	11.035	10.065	10.55
Variance	1.31713158	0.30344737	1.03076923

SJB4

Count	20	20	40
Sum	219.2	211.7	430.9
Average	10.96	10.585	10.7725
Variance	1.20989474	0.74028947	0.98614744

Total

Count	40	40
Sum	439.9	413
Average	10.9975	10.325
Variance	1.23255769	0.57782051

ANOVA

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	0.990125	1	0.990125	1.10914665	0.2956044	3.96676114
Variety	9.045125	1	9.045125	10.1324278	0.00211163	3.96676114
Rep x Var	1.770125	1	1.770125	1.98290945	0.16316184	3.96676114
Error	67.8445	76	0.89269079			
Total	79.649875	79				

Exhibit C - Salad Pak

Quantitative data - Head Height

SJB 3 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 4/15/05 evaluation date 6/21/05

SJB 4 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 4/15/05 evaluation date 6/21/05

head height (cm)			
SJB3		SJB4	
	Salad Pak	Margarita	Salad Pak
1	13.6	9.8	10.7
2	11.9	11.3	11.3
3	11.4	10.9	11.2
4	11.9	10.4	11.3
5	12.9	10.9	12.8
6	12.6	10.9	12.4
7	13.0	10.0	12.7
8	12.1	10.4	10.8
9	12.5	10.9	11.6
10	12.9	10.1	12.7
11	13.0	11.1	11.0
12	12.6	10.7	13.4
13	10.0	10.7	12.9
14	11.2	9.7	10.6
15	10.3	10.5	12.8
16	11.5	10.6	11.4
17	12.4	11.8	10.2
18	12.4	10.4	9.9
19	12.4	12.5	12.0
20	11.0	10.8	11.5

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SJB3			
Count	20	20	40
Sum	241.6	214.4	456
Average	12.08	10.72	11.4
Variance	0.87747368	0.42694737	1.10974359
SJB4			
Count	20	20	40
Sum	233.2	221.2	454.4
Average	11.66	11.06	11.36
Variance	1.00042105	0.62778947	0.88553846
Total			
Count	40	40	
Sum	474.8	435.6	
Average	11.87	10.89	
Variance	0.96010256	0.54348718	

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Rep	0.032	1	0.032	0.04364681	0.83507106	3.96676114
Variety	19.208	1	19.208	26.198995	2.2528E-06	3.96676114
Rep x Var	2.888	1	2.888	3.93912419	0.05078468	3.96676114
Error	55.72	76	0.73315789			
Total	77.848	79				

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Exhibit C - Salad Pak

Quantitative data - Core Diameter (mm)

SJB 3 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1) sow date 4/15/05 evaluation date 6/21/05

SJB 4 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2) sow date 4/15/05 evaluation date 6/21/05

core diameter (mm)			
	SJB3		SJB4
	Salad Pak	Margarita	Salad Pak
1	34.9	27.2	26.2
2	26.9	31.3	30.8
3	25.8	23.0	28.3
4	31.2	26.3	25.2
5	29.9	28.7	27.8
6	32.2	30.2	29.8
7	32.0	21.8	35.1
8	29.7	28.2	27.8
9	33.8	26.2	24.8
10	30.7	29.4	29.2
11	27.7	27.5	21.1
12	33.5	32.1	31.5
13	23.1	23.9	30.4
14	31.4	28.8	29.0
15	23.8	25.4	33.2
16	28.0	26.1	28.2
17	26.2	27.2	24.8
18	34.7	26.8	27.2
19	29.2	31.6	27.5
20	25.5	28.8	26.3

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SJB3			
Count	20	20	40
Sum	590.2	550.5	1140.7
Average	29.51	27.525	28.5175
Variance	12.5651579	7.60407895	10.8363526
SJB4			
Count	20	20	40
Sum	564.2	556.7	1120.9
Average	28.21	27.835	28.0225
Variance	10.0662105	9.65292105	9.6428141
Total			
Count	40	40	40
Sum	1154.4	1107.2	
Average	28.86	27.68	
Variance	11.4588718	8.43189744	

ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Rep	4.9005	1	4.9005	0.49142145	0.48543478	3.96676114
Variety	27.848	1	27.848	2.79259354	0.09881402	3.96676114
Rep x Var	12.9605	1	12.9605	1.29967713	0.25785234	3.96676114
Error	757.879	76	9.97209211			
Total	803.588	79				

200500307

Exhibit C - Salad Pak

Quantitative data - Core Length (mm)

SJB 3 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 1)

sow date 4/15/05 evaluation date 6/21/05

SJB 4 : 525 Lucy Brown Lane, San Juan Bautista, CA (rep 2)

sow date 4/15/05 evaluation date 6/21/05

core length (mm)			
	SJB3		SJB4
	Salad Pak	Margarita	Salad Pak
1	47.4	21.1	22.4
2	30.8	29.2	31.2
3	19.0	12.2	26.2
4	32.8	22.0	18.8
5	38.5	29.0	26.4
6	34.4	24.7	32.1
7	35.8	12.2	33.0
8	33.8	21.7	29.9
9	39.2	20.8	23.2
10	29.8	21.0	33.3
11	28.0	26.0	14.8
12	34.0	24.9	34.6
13	14.0	18.2	39.3
14	33.2	28.0	26.4
15	16.0	20.8	41.0
16	29.2	21.7	26.3
17	43.8	23.5	19.3
18	39.2	22.1	29.5
19	24.5	29.5	33.2
20	23.1	27.8	27.0

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SJB3			
Count	20	20	40
Sum	626.5	456.4	1082.9
Average	31.325	22.82	27.0725
Variance	76.7009211	24.1385263	67.6743526
SJB4			
Count	20	20	40
Sum	567.9	475.8	1043.7
Average	28.395	23.79	26.0925
Variance	44.8099737	39.0177895	46.276609
Total			
Count	40	40	80
Sum	1194.4	932.2	2126.6
Average	29.86	23.305	26.58
Variance	61.3988718	31.0097179	48.203834

ANOVA

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	19.208	1	19.208	0.41605654	0.52085378	3.96676114
Variety	859.3605	1	859.3605	18.614252	4.7572E-05	3.96676114
Rep x Var	76.05	1	76.05	1.64728757	0.2032282	3.96676114
Error	3508.677	76	46.1668026			
Total	4463.2955	79				

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Exhibit C - Salad Pak

Quantitative data - Spread of Frame Leaves

SAL 5 : Martella Orcutt Ranch 15, Salinas, CA (rep 1)

sow date 4/2/2005 evaluation date 6/8/2005

SAL 6 : Martella Orcutt Ranch 15, Salinas, CA (rep 2)

sow date 4/2/2005 evaluation date 6/8/2005

spread of frame leaves (cm)				
	SAL5		SAL6	
	Salad Pak	Margarita	Salad Pak	Margarita
1	40.9	38.2	38.3	35.6
2	40.8	33.8	38.8	33.9
3	37.3	34.4	37.9	32.0
4	41.1	37.6	40.2	37.2
5	41.0	35.0	35.8	34.9
6	39.5	35.8	35.2	35.2
7	36.4	37.9	37.3	34.1
8	36.8	32.3	40.5	35.9
9	37.8	36.3	36.3	32.8
10	35.3	33.2	38.9	37.2
11	34.9	34.9	39.3	34.8
12	41.0	36.5	38.3	34.8
13	39.4	35.2	34.9	39.7
14	35.8	33.9	38.0	35.9
15	38.3	33.6	40.1	29.4
16	39.9	34.2	37.9	35.0
17	37.7	35.2	37.2	34.4
18	38.7	34.6	37.6	39.2
19	36.2	34.8	34.9	35.3
20	38.3	35.8	38.2	35.4

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SAL5			
Count	20	20	40
Sum	767.1	703.2	1470.3
Average	38.355	35.16	36.7575
Variance	4.1805	2.44989474	5.84763462
SAL6			
Count	20	20	40
Sum	755.6	702.7	1458.3
Average	37.78	35.135	36.4575
Variance	2.84168421	5.20976316	5.71635256
Total			
Count	40	40	
Sum	1522.7	1405.9	
Average	38.0675	35.1475	
Variance	3.50583974	3.73178846	

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Rep	1.8	1	1.8	0.49040168	0.48588646	3.96676114
Variety	170.528	1	170.528	46.4595652	1.9457E-09	3.96676114
Rep x Var	1.5125	1	1.5125	0.41207363	0.52285042	3.96676114
Error	278.955	76	3.67046053			
Total	452.7955	79				

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Exhibit C - Salad Pak

Quantitative data - Head Weight

SAL 5 : Martella Orcutt Ranch 15, Salinas, CA (rep 1)

sow date 4/2/2005 evaluation date 6/8/2005

SAL 6 : Martella Orcutt Ranch 15, Salinas, CA (rep 2)

sow date 4/2/2005 evaluation date 6/8/2005

head weight (grams)			
	SAL5		SAL6
	Salad Pak	Margarita	Salad Pak
1	253.9	209.9	245.0
2	314.8	230.0	286.4
3	202.8	220.7	339.8
4	309.8	300.0	357.5
5	214.8	294.4	280.9
6	199.3	266.3	258.2
7	252.4	242.5	254.9
8	285.1	204.2	303.1
9	212.9	314.9	250.2
10	252.5	238.5	254.8
11	210.8	231.9	295.0
12	235.4	275.3	296.8
13	282.8	283.1	267.9
14	261.5	349.5	253.4
15	275.6	197.6	282.5
16	314.4	363.7	351.0
17	294.4	277.2	283.5
18	326.0	210.5	234.8
19	207.4	264.4	206.4
20	276.5	280.6	279.9
			241.4

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SAL5			
Count	20	20	40
Sum	5183.1	5255.2	10438.3
Average	259.155	262.76	260.9575
Variance	1726.14682	2206.64042	1919.30558
SAL6			
Count	20	20	40
Sum	5582	4736.4	10318.4
Average	279.1	236.82	257.96
Variance	1467.13263	1667.11432	1985.29938
Total			
Count	40	40	
Sum	10765.1	9991.6	
Average	269.1275	249.79	
Variance	1657.70102	2059.7481	

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	179.700125	1	179.700125	0.10171176	0.75065992	3.96676114
Variety	7478.77812	1	7478.77812	4.23305049	0.04307446	3.96676114
Rep x Var	10527.1661	1	10527.1661	5.9584634	0.01697415	3.96676114
Error	134273.649	76	1766.75855			
Total	152459.294	79				

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Exhibit C - Salad Pak

Quantitative data - Head Diameter

SAL 5 : Martella Orcutt Ranch 15, Salinas, CA (rep 1)

sow date 4/2/2005 evaluation date 6/8/2005

SAL 6 : Martella Orcutt Ranch 15, Salinas, CA (rep 2)

sow date 4/2/2005 evaluation date 6/8/2005

head diameter (cm)				
	SAL5		SAL6	
	Salad Pak	Margarita	Salad Pak	Margarita
1	10.9	11.4	9.8	9.8
2	10.7	10.1	10.3	9.9
3	9.7	11.2	11.4	9.8
4	11.3	11.7	11.0	11.1
5	10.9	9.9	10.7	8.9
6	9.9	10.9	10.6	10.4
7	10.8	10.8	10.2	10.5
8	11.1	9.8	10.7	9.9
9	11.7	10.2	9.1	10.8
10	10.2	9.4	10.3	10.7
11	9.9	9.7	10.6	9.4
12	9.6	9.4	11.4	9.9
13	11.1	10.4	10.1	10.9
14	10.1	10.7	9.5	8.7
15	10.4	9.5	10.8	9.6
16	10.4	10.7	9.5	10.6
17	9.2	10.8	10.9	8.9
18	9.7	10.6	9.8	10.8
19	9.2	10.4	9.1	9.6
20	11.9	10.1	10.5	10.4

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SAL5			
Count	20	20	40
Sum	208.7	207.7	416.4
Average	10.435	10.385	10.41
Variance	0.60976316	0.43397368	0.50912821
SAL6			
Count	20	20	40
Sum	206.3	200.6	406.9
Average	10.315	10.03	10.1725
Variance	0.46134211	0.50536842	0.49178846
Total			
Count	40	40	
Sum	415	408.3	
Average	10.375	10.2075	
Variance	0.52551282	0.48994231	
ANOVA			
<i>Source of Variati</i>	<i>SS</i>	<i>df</i>	<i>MS</i>
Rep	1.128125	1	1.128125
Variety	0.561125	1	0.561125
Rep x Var	0.276125	1	0.276125
Error	38.1985	76	0.50261184
Total	40.163875	79	

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Exhibit C - Salad Pak

Quantitative data - Head Height

SAL 5 : Martella Orcutt Ranch 15, Salinas, CA (rep 1)
 SAL 6 : Martella Orcutt Ranch 15, Salinas, CA (rep 2)

sow date 4/2/2005 evaluation date 6/8/2005
 sow date 4/2/2005 evaluation date 6/8/2005

head height (cm)				
	SAL5		SAL6	
	Salad Pak	Margarita	Salad Pak	Margarita
1	11.3	11.3	10.0	10.8
2	12.2	10.6	11.4	9.4
3	9.6	10.4	10.9	10.0
4	12.1	12.4	11.7	11.2
5	11.4	11.1	10.5	9.2
6	9.6	11.8	10.4	9.6
7	9.4	9.9	10.1	11.4
8	11.3	10.1	11.8	9.6
9	10.9	11.1	10.9	9.7
10	10.4	11.2	10.5	10.1
11	10.3	9.4	10.8	10.4
12	10.6	10.1	10.9	9.8
13	10.9	10.3	10.1	10.9
14	10.8	10.9	9.5	9.9
15	9.7	9.3	10.9	9.6
16	10.6	11.2	10.4	10.2
17	10.6	10.3	11.5	10.2
18	10.8	10.2	9.7	10.6
19	9.9	10.9	9.4	9.8
20	9.7	9.9	10.8	10.3

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SAL5			
Count	20	20	40
Sum	212.1	212.4	424.5
Average	10.605	10.62	10.6125
Variance	0.65102632	0.608	0.61342949
SAL6			
Count	20	20	40
Sum	212.2	202.7	414.9
Average	10.61	10.135	10.3725
Variance	0.47147368	0.36028947	0.46307051
Total			
Count	40	40	
Sum	424.3	415.1	
Average	10.6075	10.3775	
Variance	0.54686538	0.53204487	

Source of Variati	SS	df	MS	F	P-value	F crit
Rep	1.152	1	1.152	2.20395217	0.14179336	3.96676114
Variety	1.058	1	1.058	2.0241158	0.15891076	3.96676114
Rep x Var	1.2005	1	1.2005	2.29674009	0.13379417	3.96676114
Error	39.725	76	0.52269737			
Total	43.1355	79				

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Exhibit C - Salad Pak

Quantitative data - Core Diameter

SAL 5 : Martella Orcutt Ranch 15, Salinas, CA (rep 1)

sow date 4/2/2005 evaluation date 6/8/2005

SAL 6 : Martella Orcutt Ranch 15, Salinas, CA (rep 2)

sow date 4/2/2005 evaluation date 6/8/2005

core diameter (mm)			
	SAL5		SAL6
	Salad Pak	Margarita	Salad Pak
1	22.2	29.9	25.0
2	23.7	14.5	22.9
3	19.2	22.2	24.9
4	24.2	23.5	27.2
5	19.1	19.9	24.9
6	18.2	19.8	23.6
7	23.8	21.6	24.7
8	25.4	21.7	26.2
9	20.2	25.4	19.9
10	21.7	23.2	23.7
11	19.7	20.8	19.8
12	20.4	21.3	26.8
13	24.9	23.3	21.3
14	23.9	28.4	22.8
15	19.6	19.7	19.8
16	24.3	26.8	24.8
17	22.9	23.9	21.8
18	25.3	21.4	20.2
19	18.8	14.2	21.7
20	19.3	27.9	21.0

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SAL5			
Count	20	20	40
Sum	436.8	449.4	886.2
Average	21.84	22.47	22.155
Variance	6.11726316	16.398	11.0707436
SAL6			
Count	20	20	40
Sum	463	458.6	921.6
Average	23.15	22.93	23.04
Variance	5.68789474	5.24957895	5.34092308
Total			
Count	40	40	
Sum	899.8	908	
Average	22.495	22.7	
Variance	6.19125641	10.6005128	
ANOVA			
<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>
Rep	15.6645	1	15.6645
Variety	0.8405	1	0.8405
Rep x Var	3.6125	1	3.6125
Error	635.602	76	8.36318421
Total	655.7195	79	

200500307

Exhibit C - Salad Pak

Quantitative data - Core Length

SAL 5 : Martella Orcutt Ranch 15, Salinas, CA (rep 1)

sow date 4/2/2005 evaluation date 6/8/2005

SAL 6 : Martella Orcutt Ranch 15, Salinas, CA (rep 2)

sow date 4/2/2005 evaluation date 6/8/2005

core length (mm)				
	SAL5		SAL6	
	Salad Pak	Margarita	Salad Pak	Margarita
1	18.7	15.8	21.1	17.9
2	20.6	6.5	16.4	16.2
3	11.1	14.8	23.8	16.1
4	22.1	17.7	28.1	22.1
5	13.8	11.2	17.8	12.1
6	8.7	16.8	19.2	13.8
7	20.7	18.4	22.1	20.9
8	22.8	15.8	25.8	17.3
9	11.1	23.6	13.7	18.8
10	22.9	17.1	21.9	17.9
11	18.5	21.2	17.4	18.1
12	11.8	14.7	23.9	12.9
13	23.8	17.6	17.7	14.8
14	17.9	23.8	16.9	13.4
15	13.2	13.0	17.2	19.6
16	16.2	23.2	20.7	12.4
17	14.5	16.2	22.3	14.8
18	21.3	15.7	12.3	19.7
19	10.7	9.9	17.6	17.7
20	12.2	21.3	18.2	18.3

Anova: Two-Factor With Replication

SUMMARY	Salad Pak	Margarita	Total
SAL5			
Count	20	20	40
Sum	332.6	334.3	666.9
Average	16.63	16.715	16.6725
Variance	23.6264211	20.5918684	21.5440962
SAL6			
Count	20	20	40
Sum	394.1	334.8	728.9
Average	19.705	16.74	18.2225
Variance	15.6889211	8.34568421	13.9633269
Total			
Count	40	40	
Sum	726.7	669.1	
Average	18.1675	16.7275	
Variance	21.5781474	14.0979423	

Source of Variet	SS	df	MS	F	P-value	F crit
Rep	48.05	1	48.05	2.81599778	0.09743674	3.96676114
Variety	41.472	1	41.472	2.43049032	0.12315041	3.96676114
Rep x Var	46.5125	1	46.5125	2.72589171	0.1028596	3.96676114
Error	1296.805	76	17.0632237			
Total	1432.8395	79				

ADDENDUM EXHIBIT C - SALAD PAK

200500307

C - 'Salad Pak'
 Quantitative data - bolting

Location: 525 Lucy Brown Lane, San Juan Bautista, California

Spring/Summer

Planting Date: 04/15/2005

Plt #	# days seed stalk emergence			height of mature seed stalk			spread of bolter plant		
	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett	Salad Pak	Margarita	Bennett
1	102	93	102	100.3	101.5	85.9	25.2	23.2	24.3
2	101	95	-	102.7	88.7	-	26.9	25.2	-
3	103	95	102	113.3	96.4	98.5	24.5	28.3	26.3
4	104	99	103	113.2	92.8	88.4	42	30.8	22.7
5	108	101	102	125.1	109.5	86.8	30.6	27.3	21.3
6	104	99	102	119.4	105.9	100	36.2	29.8	22.2
7	101	95	102	114.8	107.4	77.8	36.1	29.3	20.1
8	104	102	102	110.7	99.3	109.3	28.2	28.7	29.7
9	105	102	96	119.5	96.5	95.8	32.4	24.9	23.7
10	106	96	102	104.6	96.7	94.3	31.2	19.5	21.6
11	99	101	102	105.4	-	106.3	38.3	-	29.7
12	95	101	102	102.8	92.5	104.2	35.4	25.1	25.8
13	102	99	-	120.5	89.7	-	22.9	22.3	-
14	109	99	100	124.6	88.9	84.1	29.3	23.2	25.4
15	106	100	103	114.7	104.1	92.5	35.1	28.2	26.7
16	106	95	102	113.5	102.7	-	31.6	27.9	-
17	108	102	102	116	99.6	82.4	24.9	22.4	22.3
18	105	102	102	110.3	95.4	93.8	26.2	20.2	29.2
19	103	102	103	117.4	95.7	100.7	23.8	22.8	25.8
20	105	-	102	97.8	-	85.8	20.5	-	20.4
Mean	103.8	98.8	101.7	112.3	98.0	93.3	30.1	25.5	24.5
Var	10.8	9.3	2.4	62.6	39.6	81.2	33.7	11.6	9.8

200500307

Exhibit D- Results of Tomato Bushy Stunt Screenings

Planted-7/15/2004				
Results of Tomato Bushy Stunt Screening- Pasco Ranch, Salinas, California				
Test No.	Variety	# Plants	Resistant	Susceptible
TB3-04-9292	Margarita	38	38	0
TB3-04-9293	Salad Pak	36	36	0
TB3-04-9294	Bennett	34	0	34

Planted-4/21/2005				
Results of Tomato Bushy Stunt Screening-Higashi Ranch, Salinas, California				
Test No.	Variety	# Plants	Resistant	Susceptible
TB1-05-43969	Bennett	45	0	45
TB1-05-43978	Bennett	37	0	37
TB1-05-43981	Bennett	26	0	26
TB1-05-43970	Margarita	38	38	0
TB1-05-43979	Margarita	48	48	0
TB1-05-43982	Margarita	42	42	0
TB1-05-43971	Salad Pak	40	40	0
TB1-05-43980	Salad Pak	38	38	0
TB1-05-43983	Salad Pak	36	36	0

ADDENDUM TO EXHIBIT D - SALAD PAK

200500307

Exhibit D - 'Salad Pak'
Lettuce - tomato bushy stunt screening

TB2-05:

Grower: Blanco Farms
Planted: July 30, 2005

Ranch: Pasco Ranch, Block #10
Evaluated: October 15, 2005

Area: Salinas, CA

Row No.	Variety	# Disease	# Healthy	Total # Plts
48504	Margarita	0	27	27
48506	Bennett	21	0	21
48507	Salad Pak	0	36	36
48508	Bennett	21	1	22
48509	Margarita	0	10	10
48511	Salad Pak	0	16	16
48512	Margarita	0	19	19
48514	Salad Pak	0	15	15
48515	Bennett	6	0	6

TB3-05:

Grower: Higashi Farms
Planted: August 1, 2005

Ranch: Home, Natividad
Evaluated: October 17, 2005

Area: Salinas, CA

Row No.	Variety	# Disease	# Healthy	Total # Plts
45584-1	Margarita	0	46	46
45586-1	Bennett	43	0	43
45587-1	Salad Pak	0	50	50
45588-1	Bennett	47	0	47
45589-1	Margarita	0	43	43
45591-1	Salad Pak	0	39	39
45592-1	Margarita	0	45	45
45593-1	Salad Pak	0	41	41
45595-1	Bennett	42	0	42
45584-2	Margarita	0	35	35
45586-2	Bennett	38	0	38
45587-2	Salad Pak	0	49	49
45588-2	Bennett	41	0	41
45589-2	Margarita	0	52	52
45591-2	Salad Pak	0	43	43
45592-2	Margarita	0	49	49
45593-2	Salad Pak	0	53	53
45595-2	Bennett	45	0	45

Trial TB3-05 was conducted in same source field as publication below

Reference: Grube, R.C., Wintermantel, W.M., Aburomia, R., Pink, D.A.C., Ryder, E.J., Genetic Analysis and mapping of resistance to lettuce dieback: a soilborne disease caused by tombusviruses, Theoretical Applied Genetics (2005) vol. 110, pp.259-268

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) <i>ENZA ZADEN BEHEER B.V.</i>	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER <i>13.1466</i>	3. VARIETY NAME <i>SALAD PAK</i>
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) <i>POSTBUS 7, 1600 AA ENKHUIZEN HALING 1e, 1602 DB ENKHUIZEN</i>	5. TELEPHONE (Include area code) <i>011-31-228-315844</i>	6. FAX (Include area code) <i>011-31-228-315854</i>
	7. PVPO NUMBER <i>200500307</i>	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

YES

NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

YES

NO

*THE NETHERLANDS*10. Is the applicant the original owner? YES NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

 YES NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

 YES NO If no, give name of country11. Additional explanation on ownership (*Trace ownership from original breeder to current owner. Use the reverse for extra space if needed*):**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

- If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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